[ANARTS - Australian National Amateur Radio Teletype Society]

ANARTS News Bulletin 917 14th JULY 1996

This is the Australian National Amateur Radio Teleprinter Society
with the weekly RTTY broadcast. We transmit on the following
frequencies and times :

```
  3.545 MHz (Plus/minus 5)   0930 UTC     VK2CTD (COL)
  7.045 MHz  -3              0030 UTC     VK2CTD (COL)
 14.070 MHz (amtor/fec)      0030 UTC     VK2DPM (ALAN
 14.091 MHz                  0030 UTC
146.675 MHz             0030/0930 UTC     VK2JPA (PAT)
144.850 MHz (ax25 bbs)                    VK2JPA AT VK2WI
146.675 MHz (rtty mmbbs/repeater)         VK2RTY

        INTERNET         RADIO-INFO-DIST AT UCSD.EDU
```

Enquiries to the society should be addressed to the
Secretary A.N.A.R.T.S., PO Box 860, Crows Nest, N.S.W.
2065, accompanied by s.a.s.e., or to VK2JPA at VK2WI.

A.N.A.R.T.S. News Bulletin 917 14th JULY 1996

COLS COLUMN

RONALDS TELEGRAPH (CONTINUED)

A FRICTIONAL ELECTRICAL MACHINE (STATIC ELECTRICITY) WAS USED AS A POWER SOURCE AND A CLOCK WAS PROVIDED AT EACH END OF THE COMMUNICATING LINE. EACH CLOCK HAD A SPINDLE WHICH ROTATED ONCE PER MINUTE. CLOCKWORK DOES NOT TURN AT A SMOOTH EVEN RATE. YOU CAN SEE THIS LOOKING AT THE SECOND HAND OF A CLOCKWORK WATCH. THE HAND MOVES IN A SERIES OF TINY JERKS, FIVE PER SECOND IN A MODERN WATCH, WITH A TINY PAUSE BETWEEN EACH MOVEMENT. THE SPINDLE OF RONALDS CLOCK MOVED ONCE PER SECOND, GIVING AN APPRECIABLE PAUSE BETWEEN EACH MOVEMENT.

EACH CLOCK HAD A CIRCULAR BRASS DIAL FIXED TO THE SPINDLE AND ROTATED WITH THE SPINDLE. AROUND THE DIAL WERE ENGRAVED TWENTY LETTER OF THE ALPHABET AND BELOW THE ALPHABET THE NUMBERS 1 TO 10. IN FRONT OF THIS DIAL WAS A FIXED APERTURE PLATE ALLOWING 1 LETTER AND 1 NUMBER TO APPEAR THROUGH THE APERTURE AT ANY GIVEN INSTANT. THE CLOCKS ?BEAT DEAD SECONDS?, SO THERE WAS PLENTY OF TIME TO RECOGNISE THE LETTER OR NUMBER.

EACH END OF THE COMMUNICATING WIRE WAS EQUIPPED WITH A 'PITH BALL ELECTROSCOPE', THAT IS A PAIR OF PITH BALLS SUSPENDED BY A FEW INCHES OF THREAD. WHEN THE WIRE WAS ELECTRIFIED BY CONTACT WITH THE 'LIVE' CONDUCTOR OF THE FRICTIONAL MACHINE, THE PITH BALLS RECEIVED PART OF THE CHARGE AND REPELLED EACH OTHER, STANDING APART AND SO INDICATING TO THE RECEIVING OPERATOR THAT THE WIRE WAS IN A CHARGED CONDITION DURING AN ENTIRE MESSAGE EXCEPT FOR MOMENTARY DISCHARGES TO INDICATE EACH CHARACTER AS WILL BE DESCRIBED.

TO SEND A MESSAGE BOTH CLOCKS WERE SET GOING AND SYNCHRONISED BY A SPECIAL LETTER SIGNAL. THIS SIGNAL WAS MADE WHEN THE LETTER 'A' APPEARED IN THE SENDERS APERTURE. THE STATIONARY APERTURE PLATE COULD BE MOVED BY HAND, SO AT THE RECEIVING END, IF THE LETTER 'A' DID NOT APPEAR ON THE APPROPRIATE

SIGNAL THE PLATE COULD BE ROTATED THE REQUIRED AMOUNT CLOCKWISE OR ANTI-CLOCKWISE UNTIL THE 'A' APPEARED.

BOTH SEND AND RECEIVE STATIONS WERE NOW SYNCHRONISED. SOME STOPWATCHES ARE SIMILARLY SYNCHRONISED BY MANUAL ROTATION OF THE ENGRAVED DIAL. TO TRANSMIT A LETTER THE SEND WAITED UNTIL THE DESIRED LETTER APPEARED AND MOMENTARILY DISCHARGED THE LINE. THE RECEIVE OPERATOR SIMPLY WATCHED THE LETTERS SUCCESSIVELY APPEARING BEFORE HIM IN HIS APERTURE PLATE AND NOTED SOWN THE LETTER VISIBLE EACH TIME THE PITH BALL ELECTROMETER INDICATED 'NO CHARGE'.

MORE NEXT WEEK

.S. If you have sent me a packet recently and have had no reply it is probably because I have had problems with my bbs. it has been on and off air like a yoyo recently and is now completely off the air. I have changed bbs to vk2wi, so if you could repeat any packets I will now receive them. 73s col

---

Hey Macquarie hunters!
I just got a message from Warren, VK0WH. He announced to be QRT for the next 2 or 3 weeks due to antenna problems. The extreme weather conditions on Macquarie Island and salty water cause a strong corrosion of his antennas. Due to short days during antarctic winter season it will take 2 or 3 weeks for him to repair what has been destroyed. After this delay you can meet him again on the already published frequencies.

Best 73, Dominik DL5EBE/JW0K

WEEKLY SOLAR AND GEOPHYSICAL REPORT

(05 JULY - 11 JULY)

ISSUED ON 12 JULY 1996

SUMMARY

Date	05	06	07	08	09	10	11
10cm	69	68	72	82	84	80	77
A	12	6	12	12	5	4	(5 ESTIMATED)
T	16	12	12	10	15	9	9

SOLAR ACTIVITY WAS VERY LOW 5TH TO 7TH JULY; LOW ON 8TH; HIGH ON 9TH, WITH AN X2 AND AN M1 FLARE; MODERATE ON 10TH WITH ANOTHER M1 FLARE, AND LOW ON 11TH.

THE GEOMAGNETIC FIELD AT LEARMONTH W.A. WAS QUIET, OR QUIET TO UNSETTLED THROUGHOUT THE PERIOD.

MAXIMUM USABLE FREQUENCIES AT SYDNEY WERE NEAR PREDICTED VALUES EXCEPT FOR ENHAMCEMENTS OF 15 TO 30 PER CENT ON 11TH JULY. SHORT WAVE FADEOUTS WERE OBSERVED ASSOCIATED WITH BOTH M1 FLARES. SPREAD F WAS OBSERVED DURING LOCAL NIGHT ON 9TH TO 11TH, AND THERE WAS OCCASIONAL SPORADIC E LAYER DURING LOCAL NIGHT ON 9TH.

FORECAST (12 JULY - 18 JULY)

SOLAR: LOW

GEOMAGNETIC: POSSIBLE ACTIVE CONDITIONS FOR 1 TO 2 DAYS FROM AROUND 1200 UT ON 12 JULY, OTHERWISDE MAINLY QUIET.

FREQUENCIES: NEAR PREDICTED MONTHLY VALUES

COURTESY OF IPS RADIO AND SPACE SERVICES

RTDX0705 RTTY DX

VK2SG RTTY DX NOTES FOR WEEKENDING 5 JULY 96 (BID RTDX0705)

Our information this week came from: DJ3IW and the Central Europe Cluster DB0SPC, I5FLN and the IK5PWJ Packet Cluster, ON6RO, S92ZM, W2JGR and the NJ0M node the Twin-Cities DX Packet Cluster and W5KSI.

Thank you all for your assistance.

Bandpass
Friday 28
0137-14086 UN5PR
0423-14084 CX7BF
1242-14086 FT5WF
1444-14084 JW2IJ
1603-14088 CY0AA
1633-14083 GM3ITN
1641-14090 CY0AA
1707-14086 KE6GEM/5N6
1721-14090 CY0AA
1752-14086 SV1BDO/7
1752-14086 UT0ME
1754-14081 LX2SM
1849-14090 CY0AA
1938-14092 CY0AA
1958-14086 CS7CBI
2009-14085 UR5EDU
2031-14083 JW2IJ QSL LA2IJ
2036-14085 JX7DFA
2053-14091 CY0AA
2100-14083 4L1BR
2313-14083 FG5GI

Saturday 29

0116-14083 TG9AXB
0127-14087 JX7DFA
0209-14081 KB96GID SPEC. OLYMPIC CALL
0258-14089 CY0AA
0416-14083 KL7WP
0423-14084 KL7/KG5EG
0611-14084 9A/DL9TL
0629-14084 J28JJ
0737-14085 4Z5AV
0750-14081 JW2IJ
1037-14088 VK9CB
1157-14086 FR5HG
1245-14082 FT5WE

```
1259-14091  JX7DFA
1317-14081  J28JY
1320-14084  RK9CWA
1323-14084  OH2BP
1507-14086  CX7BF
1529-14082  A41KD
1547-14080  GM3ITN
1550-14085  KG4AU
1656-14086  9Q5PA
1702-14081  FO5OP
1712-14083  9Q5PA
1733-14088  JW2IJ
1814-14090  CY0AA
1824-14085  PJ2MI
1825-14084  CX7BF
1834-14085  EA6NB
1838-14084  PJ2MI
1839-14090  CY0AA
1940-14085  UR5EDU
1944-14083  SQ2CDB
1952-14081  ER3KS
2055-14082  KG4MN
2118-14084  EA6BH
O2148-14091  4L1BR
2230-14081  4L1DX QSL OZ1HPS
2309-14091  JX7DFA
2354-14079  FO5OP

Sunday 30

0220-14088  9N1ARB
0828-14081  JW2IJ
1244-14086  CX7BF
1250-14083  KG4GM  QSL WB2YQH
1258-14083  JW2IJ
1318-14082  TG9AXB
1440-14089  ZP5GJN
1530-14082  JW2IJ
1544-14085  CY0AA
1740-14072  TU5DR PACTOR QSL KONE AL MOUSTAPHA, P.O. BOX
            223, ABENGOUROU, IVORY COAST, WEST AFRICA
2117-14081  CN8GB
2152-14084  XE3ARV
2157-14080  3Z6AEF
2231-14082  TG9AXB
2249-14080  FO5OP

Monday 1

0105-14085  JW2IJ
0106-14086  UN5PR
0200-14080  TG9AXB
0601-14081  JW2IJ
1125-14083  YI1WMS
1401-14091  JX7DFA
1604-14087  EU1AZ
1939-14085  LZ1MC
2036-14085  KL7KJ
2133-14081  TG9AXB
2149-14080  HK3BZO

Tuesday 2
```

0056-14084 TG9AXB
0117-14079 HK3BZO
1552-14089 VK6APW

Wednesday 3

1456-14082 UN5PR

Thursday 4

2055-14086 CS7CBI
2056-14084 VY2RO
2150-14085 OEM5EGN
2152-14083 Y58AA

NOTES OF INTEREST:
GUANTANAMO BAY, KG4. KQ4GC, Bill, will be active from here 12-18 July. RTTY and SSB are planned. Callsign will be KG4GC. QSL via home call.

ROTUMA ISLAND, 3D2. Antoine, 3D2AG has announced that he is planning an August DXpedtion to Rotuma with the call of 3D2AG/P. CW and RTTY on 80 thru 10 meters. QSL home call.

THE VK2SG RTTY DXNOTES are also available on Internet at reflectors dx@ve7tcp.ampr.org, and digital-dx@st.rim.or.jp. See also the OH2BUA WebCluster at URL http://www.clinet.fi/~jukka/webcluster.html

For next week's bulletin send your bandpass to Jules, W2JGR at W5KSI.#NOLA.LA.USA.NA

REMEMBER, DX DON'T SLEEP.
GL DE BOB, WB2CJL AT W5KSI.#NOLA.LA.USA.NA

ARRL DX Bulletin
>From ARRL Headquarters
Newington CT July 5, 1996
To all radio amateurs

This week's bulletin was made possible with info provided by Tedd, KB8NW, The OPDX Bulletin, DXNS, 425 DX News, The Yankee Clipper Contest Club Packetcluster network and Contest Corral from QST. Thanks to all.

MADAGASCAR, 5R8. Gerard, F2JD/5R8EN, is expected to be active from Nosy Be Island, IOTA AF-57, until July 7 or 8 as 5R8EN/P. He will operate SSB and CW during free time. QSL via F6AJA.

OMAN, A4. Chris, G3VUO, is currently on Masirah Island, AS-014, and has obtained the call sign A45XL. He should be up and running very soon. This Omani Island is located in the Arabian Sea Coast North Group.

FAROE ISLANDS, OY. Ingo, OY/SM0DSF, will be active until July 6. QSL via home call or the bureau. Greg, SQ6CWP, and Mario, SP6OJG, will be active on SSB and CW, as OY/SM6RXS until July 9. QSL via SM6RXS.

WESTERN SAMOA, 5W. Perry, WH6XY, will be active for a year as 5W1PC. He has been on 14226 khz between 0130 and 0300Z.

UK SOVEREIGN BASE, ZC4. PA0ERA and PA2HJS should be active until July 20 as ZC4EKJ, with emphasis on 6 meters.

ASCENSION ISLAND, ZD8. Jim, N6TJ, will sign ZD8Z July 9 to 17 on CW and SSB. He will participate in the IARU HF Championship. QSL via VE3HO.

ROTUMA ISLAND, 3D2. Antoine, 3D2AG, is planning a one month DXpedition for August. He will be on 80 through 10 meter CW and RTTY signing 3D2AG/P. QSL direct to his CBA.

CAPE VERDE, D4. Veronica, IK3VAW, will be QRV for several weeks starting July 21 on all bands, mostly SSB. Check 14240 khz. No call sign was available at bulletin deadline. QSL via IK3VAW.

CROZET, FT5. Samuel, FT5WE, will be active in the IOTA Contest, probably using the call sign of compatriot FT5WF.

COMING EVENTS

JULY	13TH-14TH	BARTG AMTOR/PACTOR
AUGUST	17TH-18TH	SARTG WW RTTY
SEPTEMBER	28TH-29TH	CQ/DJ WW DIGITAL
OCTOBER	19TH-20TH	JARTS WW RTTY

TELETYPE BOOKS FOR DISPOSAL.

I HAVE FOR FREE DISPOSAL THE FOLLOWING RTTY MECHANICAL MACHINE TECHNICAL INFORMATION :

3 BOOKS :

TELEPRINTER MODEL 100 PAGEPRINTER. (MAINTENANCE AND ADJUSTMENTS).

TELEPRINTER MODEL 100 TAPETRANSMITTER ATTACHMENT.(MAINTENANCE AND ADJUSTMENTS).

TELEPRINTER MODEL 100 REPERFORATOR ATTACHMENT. (MAINTENANCE AND ADJUSTMENTS)

3 PHOTO COPIED PAMPHLETS :

TELEPRINTER MODEL 100 LOCAL CARRIAGE RETURN AND LINE FEED ATTACHMENT. (FITTING AND REMOVAL PRACTICE).

TELEPRINTER MODEL 100 LOCAL CARRIAGE RETURN AND LINE FEED ATTACHMENT. (MAINTENANCE AND ADJUSTMENTS).

MODEL 15 TELETYPE - DESCRIPTION. (HAS GOOD GRAPHICS OF MOST WORKING PARTS, VERY USEFUL FOR MAINTAINING A MODEL 15).

THESE ITEMS ARE OFFERED FREE OF CHARGE TO ANYONE WHO STILL USES MECHANICAL TELEPRINTERS OR MAYBE SOMEONE WHO HAS A GENUINE INTEREST IN THE SUBJECT. THEY ARE ALL IN FAIRLY

GOOD CONDITION THOUGH THE FIRST NAMED HAS A WELL USED
COVER. OTHER THAN THAT THEY ARE QUITE READABLE. IF YOU WANT
THIS MATERIAL FOR THE PRICE OF THE POSTAGE PLEASE CONTACT ME
COL VK2CTD AT VK2DAA OR EMAIL COLIN.DAVIES(AT)DSE.COM.AU

Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general enquiries. Enquiries can also be made by packet to the President (Col) VK2CTD at VK2WI, or the Secretary (Pat) VK2JPA at VK2WI.

Email address for the Broadcast Officer is :

patl(at)pitt.conmusic.su.oz.au
or patl(at)extro.ucc.su.oz.au

Email address for the President is :

COLIN.DAVIES(AT)DSE.COM.AU

73s de Pat VK2JPA Broadcast Officer

--
Dave Horsfall (VK2KFU) | dave@esi.com.au | VK2KFU @ VK2DAA.NSW.AUS.OC | PGP 2.6
Opinions expressed are mine. | D8 15 71 F9 26 C8 63 40 5E 63 5C 65 FC A0 22 99